

January 15, 2016

Beth Keating & Lauri Teig Harlowton Area Chamber of Commerce PO Box 694 Harlowton, MT 59036

Subject: Additional Remedial Investigation Corrective Action Plan (CAP RI-02) / Contaminated Soil

Excavation & Disposal Corrective Action Plan (CAP AC-04) for the Petroleum Release at the Former Bob's Chevron, 201 North Central Avenue, Harlowton, Montana; Facility ID 54-

05552, Release 719, Work Plan 10136

Dear Ms. Keating and Ms. Teig:

Tetra Tech is pleased to submit this Additional Remedial Investigation Corrective Action Plan (CAP) in response to the Montana Department of Environmental Quality's (DEQ's) letter dated November 2, 2015, concerning the former Bob's Chevron facility referenced above. Tetra Tech has also reviewed the Remedial Investigation and Disposal of Waste Oil Report, prepared by Pioneer Technical Services, Inc. dated April 2015. In addition to the services provided in this work plan, Tetra Tech will also coordinate with the Central Montana Brownfields Coalition (CMBC) and provide the information necessary for payment by the Brownfields Revolving Loan Fund (RLF). Additional services may also be required that are not included herein, such as the preparation of a Sampling Analysis Plan/Quality Assurance Project Plan (SAP/QAPP), public bid assistance, and additional reporting requirements that meet U.S. Environmental Protection Agency Brownfields requirements.

Based on communication with DEQ, eight 8 tasks have been identified for the completion of this CAP: (1) Work Plan preparation, (2) Engineering oversight and bid solicitation, (3) Over-excavation of contaminated soils, (4) Soil boring and monitoring well installation, (5) Groundwater monitoring, (6) Reporting, (7) Project Management, and (8) Brownfields Administration. Work will begin within 30 days of CAP approval from the DEQ and satisfactory obligation of funds from the Petroleum Tank Release Compensation Board (PTRCB).

SCOPE OF SERVICES

Task 1 Corrective Action Plan Preparation

 This task includes the preparation of this Standardized Soil Boring and Monitoring Well Installation Corrective Action Plan (CAP RI-02) / Contaminated Soil Excavation & Disposal Corrective Action Plan (CAP AC-04)

Task 2 Engineering Oversight

- Engineering oversight for all contracted construction work to confirm that construction workers adhere to health and safety requirements, document soil removal, and collect confirmation soil samples.
- Confirmation soil samples will be collected per every 25 lineal feet of sidewall and per every 625 square feet from the base of the excavation. Soil samples will be submitted to Energy Laboratories, Inc. (Energy), of Helena for volatile petroleum hydrocarbon (VPH) and extractable petroleum hydrocarbon (EPH) screen

- analysis. If EPH screen results exceed 200 milligrams per kilogram (mg/kg) then samples will be fractionated without polycyclic aromatic hydrocarbons (PAHs).
- Tetra Tech anticipates the permitting of a 0.5-acre one time land farm facility per Administrative Rules of Montana 17.50.403. Tetra Tech will assist with land farm permitting and coordination with DEQ. One 5point composite soil sample will be collected once soils have been land applied to this facility. The sample will be submitted to Energy for VPH and EPH screen analysis following the protocols described above.

Task 3 Over-Excavation of Contaminated Soils

- Tetra Tech will subcontract the excavation of approximately 180 cubic yards of soils impacted by petroleum hydrocarbons. The anticipated depth of the excavation is approximately 16 to 20 feet below ground surface depending on groundwater elevations when the work is completed.
- A contractor will be utilized for all excavation work, traffic control, bonding, utility locating and capping (if necessary), backfilling, and resurfacing.
- The one-time land farm will be utilized for treatment of contaminated soils. Tetra Tech will require the contractor contractor to identify a suitable location within 10 miles of the excavation site, negotiate fees, and perform periodic tilling until the land farm is categorized as 'closed' by DEQ.
- This task does not include the permitting or disposal of any found underground storage tanks (USTs) during the course of excavation. If a UST is found, Tetra Tech will contact the DEQ UST permitting program prior to further excavation to discuss further course of action and maintain PTRCB eligibility.

Task 4 Soil Boring and Monitoring Well Installation

- The Montana One-Call utility locating service will be utilized prior to the initiation of any drilling.
- Tetra Tech will subcontract a hollow-stem drill rig to install 6 soil borings, three of which to be completed as monitoring wells. Total depths will not exceed 30 feet below ground surface. Proposed well locations are identified on the attached **Figure 1**. Haz Tech Drilling of Billings has been selected for this task.
- A minimum of 2 feet of every 5 feet of soil will be logged on standard lithologic field logs. Borings will be sampled and field screened at 2-foot intervals for petroleum hydrocarbons using a photo-ionization detector (PID).
- Drill cuttings will be thin spread on the Bob's Chevron property over areas not covered with concrete.
- Soil samples from the interval with the highest PID reading at each location or the soil-groundwater interface will be containerized and submitted for laboratory analysis. Samples will be submitted to Energy for VPH and EPH screen analysis. Samples that exhibit concentrations of EPH screen greater than 200 mg/kg will be fractionated without analysis for PAHs.
- The three boring locations to be converted into monitoring wells will be constructed of schedule 40, 2-inch polyvinyl chloride (PVC) tubing with 0.010 inch slotted screens. Colorado silica sand and bentonite will be placed in the annular space. Screening intervals will be set based on field conditions to most closely match the depth of the water table. Steel flush mounted well covers will be used to protect well heads.
- A licensed surveyor will be subcontracted to survey the three on-site wells with 0.01 foot vertical accuracy and survey grade GPS for horizontal locations.
- Newly installed wells will be developed using the surge and bail method.
- Development purge water will be land applied in the vicinity of the well head.

Task 5 Groundwater Monitoring

- Two groundwater monitoring events will be performed, one during seasonally low groundwater conditions during Fall 2016, and one during seasonally high conditions during Spring 2017.
- Static water levels will be measured in existing wells MW12, PMW-29, and PMW-57, as well as the three newly installed wells.
- Field parameters in each of the six wells including dissolved oxygen, oxidation-reduction potential, pH, specific conductivity, temperature will be recorded prior to collecting groundwater samples.

- Samples will be collected from each of the six wells using a submersible pump and low flow sampling protocols (i.e. field parameter stabilization of temperature, pH, dissolved oxygen, conductivity, and oxidation reduction potential). In the event insufficient water is present during the sampling event for using a submersible pump, wells will be purged and sampled using disposable polyethylene bailers.
- Purge water from sampling will be broadcast on-site.
- Samples will be submitted to Energy for analysis for VPH, EPH screen, and intrinsic biodegradation indicators including methane, nitrates/nitrites, sulfates, dissolved manganese and ferrous iron.
 Groundwater samples that exhibit concentrations of EPH screen greater than 1,000 micrograms per liter will be fractionated without analysis for PAHs.

Task 6 Reporting

- Tetra Tech will prepare a Standardized Additional Remedial Investigation Report (RIR-02) / Abbreviated Excavation and Disposal of Soils Report (AR-04) after completion of the first groundwater monitoring event.
- Tetra Tech will also prepare a Standardized Groundwater Monitoring Report (AR-04) after completion of the second monitoring event.

Task 7 Project Management

 40 hours is allocated for project management tasks including but not limited to field coordination, contract management, and one-time land farm permitting.

Task 8 Brownfields Administration

- Costs associated with brownfields administration tasks will not be eligible for reimbursement by the PTRCB and will not be included with reimbursement requests.
- The following tasks will be required in order to utilize the CMBC Brownfields RLF for this project:
 - 1. Preparation of a SAPP/QAPP for all sampling tasks including excavation confirmation soil samples, land farm sampling, soil boring samples, and groundwater samples;
 - 2. Implementation of a public bidding process for excavation contractors. This task includes Tetra Tech's labor and printing costs to administer a bid process for this publicly funded project. Bid preparation requirements include public advertisement, contract preparation, CAD drawing preparation, an on-site walkthrough for eligible bidders, and contractor selection:
 - 3. Monthly reporting to the CMBC.
- If additional brownfields tasks are identified during the implementation of this CAP, they will be brought to the attention of the Harlowton Area Chamber of Commerce and the CMBC.

COST

Our cost to complete the above mentioned tasks is estimated to be \$110,669.21 and is itemized on the attached spreadsheet. The cost estimate assumes PTRCB 2015 billing rates and includes Tetra Tech staff time, direct costs, subcontractor costs, sampling, and analytical services. Tetra Tech assumes the PTRCB will reimburse at 2016 rates when the new rate table becomes available.

Once DEQ has approved the CAP, and the PTRCB has satisfactorily approved the costs, we will know the actual scope of work to be carried out. Should you have any questions please feel free to contact me at (406) 447-1450, or by email at nicholas.sovner@tetratech.com.

Sincerely,

Nicholas Sovner

Environmental Scientist/Project Manager

Attachments: Figure 1

Excavation Cost Estimator **Project Cost Estimate** Subcontractor Bids

Ec:

Scott Gestring, MDEQ, sgestring@mt.gov
JoAnne Adydan, PTRCB, jadydan@mt.gov
Karen Sweeny, SMDC, smdckaren@midrivers.com
Wendy Thomi, EPA, wendy.thomi@epa.gov





0 100 Feet

Proposed Tetra Tech Boring Former UST Basin
Proposed Tetra Tech Monitoring Well Excavation Area

Existing Monitoring Well Site

Figure 1
Former Bob's Chevron
201 North Central Ave
Harlowton, Montana

™ Price Proposal				abor Pl														Price Sumr	nary / Tota	ıls			
Price Proposal				5 Resource	ce																Task	Pricing Totals	\$ 110,669.
Bob's Chevron	Bill Rate >	\$ 115.36	\$ 146.50	\$ 83.00	\$ 94.00	0 \$ 124.88																	
DOD 5 CHEVION																							
Excavation of contaminated soil and soi/GW confirmation sampling at former service station.	Proj Area >																						\$ 110,669.
Submitted to: Harlowton Area Chamber of Commerc	,				-						11.	nit Rate Q	tu'c										ÿ 110,003.
Submitted to: Harlowton Area Chamber of Commerc	1		91	_			1				Lodging (w/	iit nate Q	Ly S	Sample (w/	1			-					
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		ger (Jeer	Æ	<u>8</u>	Jan	Unit Rate >	\$0.63	\$2,400.00	\$96.00	\$100.00	\$23.00	\$0.10	\$192.00	\$10.00	\$4,760.00	\$1,660.00						
Contract Type: T&M		fana	Engi	ician	neer	gist																	
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Project Phases / Tasks	237	67	40	48	80) 2	Quantities >	1,375	1	6	10	14	1,000	12	29	1	1	\$ 25,342.88	\$ 71,054.96	\$ 1,322.00 \$	859.38	\$ 12,090.00	\$ 110,669.
Corrective Action Plan									1									\$ -	s -	s - s	-	\$ 2,400.00	\$ 2,400.
CAP	-								1									,	*	,		\$ 2,400.00	\$ 2,400
Engineering Oversight	40	-	-	-	40	-		275	-	3	4	5	-	-	11	-		\$ 3,760.00	\$ 2,776.65	\$ 515.00 \$	171.88		\$ 7,621.
Labor	40				40)												\$ 3,760.00					\$ 3,760
Equipment	-									3												\$ 288.00	\$ 288
Mobilization (1 trip)	-		1	1				275												\$	171.88		\$ 171
Analytical Services (Energy)	-																		\$ 2,776.65				\$ 2,776
Lodging	-		-								4	_								\$ 400.00			\$ 400
Per Diem Sample Fee	-											5			11					\$ 115.00		\$ 110.00	\$ 11! \$ 110
Excavation															- 11			\$ -	\$ 48,185.31	s - s		\$ -	\$ 48,185.
Construction (Estimated)	_																	_	\$ 48.185.31	, ,		*	\$ 48.185
SB/MW Installation	40	-	-	40				275	-	3	4	5			6			\$ 3,320.00		\$ 515.00 \$	171.88	\$ 348.00	\$ 18,348.
Labor	40			40)													\$ 3,320.00					\$ 3,320
Equipment	-									3												\$ 288.00	\$ 288
Mobilization (1 trip)	-							275												\$	171.88		\$ 171
Drilling (Haz Tech)	-																		\$ 7,917.47				\$ 7,917
Traffic Control (MWHC)	-																		\$ 2,256.63				\$ 2,256
Analytical Services (Energy) Surveyor (WWC)	-																		\$ 2,214.90 \$ 1,605.00				\$ 2,214
Sample Fee															6				\$ 1,605.00			\$ 60.00	
Lodging	_										4				Ü					\$ 400.00		ŷ 00.00	\$ 40
Per Diem	-											5								\$ 115.00			\$ 115
Groundwater Monitoring	8	-	-	. 8				550	-		2	4	-	12	12	-		\$ 664.00	\$ 6,099.00	\$ 292.00 \$	343.75	\$ 2,424.00	\$ 9,822.
Labor (Driving time)	8			8	1													\$ 664.00					\$ 664
Mobilization (2 trips)	-							550												\$	343.75		\$ 34
GW Sampling	-													12								\$ 2,304.00	\$ 2,304
Analytical Services (Energy)	-																		\$ 6,099.00				\$ 6,099
Sample Fee	-		-												12					\$ 200.00		\$ 120.00	\$ 120
Lodging Per Diem	-										2	4								\$ 200.00			\$ 92
Reporting												4			-	1	1	\$ -	٠ .	\$ 92.00		\$ 6,420.00	\$ 6,420.
RI Report									- 1							1	•	-	-	, , , , , , , , , , , , , , , , , , ,		\$ 4,760.00	\$ 4,76
GWM Report				1	1												1					\$ 1,660.00	\$ 1,660
Project Management	40	40	-	-				-	-			-	-	-	-	-		\$ 4,614.40	\$ -	\$ - \$	-	\$ -	\$ 4,614
Labor	40	40	1															\$ 4,614.40					\$ 4,614
Brownfields Services (Non-Petrofund)	109	27		-	40) 2		275	-	-	-	-	1,000	-	-		-	\$ 12,984.48	\$ -	\$ - \$	171.88	\$ 100.00	\$ 13,256
SAP/QAPP	26	24				2												\$ 3,018.40					\$ 3,01
Public Bid Administration	80	-	40	_	- 40	-		275	-	-	-	-	1,000	-	-	•	-	\$ 9,620.00 \$ 9,620.00	\$ -	\$ - \$	171.88	\$ 100.00	
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Printing			-	1	 	1		2/5					1,000					1		5	1/1.88	\$ 100.00	\$ 10
Monthly Status Reports	3	3											2,000					\$ 346.08				. 230.00	\$ 346
, or special			_	_		-													1				

	Soil Excavation U				leum Tank			
Contractor Information	Relea	e Compens	ation Board	<u>i</u>		<u>H</u>	auling Estimat	<u>or</u>
A Maria	Total Area Excavated yd ³	585	Ov	erburden yd³	405	Contamin	ated Soil yd ³	180
	From:	1	1	1	1	1	1	over
Bulk Est	imating Range To:	500	1,000	2,000	3,000	4,000	5,000	5,000
	Total yd ³ 100%		585					
	Units:	Banked	Banked	Banked	Banked	Banked	Banked	Banked
	L	Yards ³	Yards ³	Yards ³	Yards ³	Yards ³	Yards ³	Yards ³
	Contaminated Soil yd ³ 31%		180	ı e				
Excavation Contaminated Soil			\$25.00					
Loading Contaminated Soil			\$25.00					
Hauling to Landfill Hauling to Land Farm	Miles: 20		\$20.00					
Hauling Backfill	Miles: 20		\$20.00					
Replace Backfill Material Type:			\$0.00					
Compaction Backfill								
Excavation (cont.),Loading,H	lauling,Backfill,Compaction - Subtotal \$/yd ³	\$0.00	\$90.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Disposal Fee Landfill yd ³ (tons must	be converted)							
Commercial Landfarm Fee yd ³								
One-Time Non-Commercial Farm Fe	ee yd ³		\$10.00					
	ackfill,Compaction,Disposal - Subtotal \$/yd ³	\$0.00	\$100.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Overburden yd ³ 69%		405					
	Units:	Banked	Banked	Banked	Banked	Banked	Banked	Banked
	Onits.	Yards ³	Yards ³	Yards ³	Yards ³	Yards ³	Yards ³	Yards ³
Remove and Reset Overburden	-		\$35.00					
Separation of Clean Overburden	-							
Compaction Overburden		4	4	4	4	4	4	4
Overburden I	Excavation and Compaction - Subtotal \$/yd ³	\$0.00	\$35.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total Bid per Cubic Yard								
	\$/yd³_	\$0.00	\$135.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Total \$		\$32,175.00					
Other Costs								
		Unit	Quantity	Unit Price	Cost \$10.358.00		Remarks	
Other Costs Mobilization/Demobilization Fencing and Traffic Control		Unit LS LS	Quantity 1 1	Unit Price \$10,358.00 \$1,500.00	Cost \$10,358.00 \$1,500.00		Remarks	
Mobilization/Demobilization Fencing and Traffic Control Concrete Removal		LS	1	\$10,358.00	\$10,358.00 \$1,500.00 \$500.00	In Kind Conju		
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Mobilization/Demobilization Fencing and Traffic Control Concrete Removal Concrete Disposal Concrete Replacement Asphalt Removal		LS LS	1 1	\$10,358.00 \$1,500.00	\$10,358.00 \$1,500.00 \$500.00 \$0.00 \$0.00	In-Kind Servic		
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Contractor Information		Bulk Estimo	ator			
				Cost per	Yards per	Cost Per
	Miles	MPH	HRS	Hour	Truck	Yard
Hauling to Landfill						
Hauling to LandFarm	20	35	0.6	\$105.00	12	\$5.00
Hauling Backfill	20	35	0.6	\$105.00	12	\$5.00

Quote #: H1184

Project Manager: Amanda B.

Carlson

Expires: 1/5/2017

Analytical Quote

Nicholas Sovner TAT: 7 days
Tetra Tech Inc QC Level: STD

303 Irene St

Helena, MT 59601

Project Name: Bob's Chevron

Schedule: Soil Samples Matrix: Soil

Comments:

Analyses	Method	Reporting Limit	Analyte Price
Physical Characteristics			
Moisture	SW3550A	0.2 wt%	\$0.00
Petroleum Hydrocarbons-Volati	le		
Volatile Petroleum Hydrocarbons	MA-VPH	0.05 - 2 mg/kg-dry	\$120.00
Extractable Petroleum Hydroca	rbons-Screen Analysis		
Hydrocarbons, Extractable Petroleum-Scrn	SW8015M	10 mg/kg-dry	\$75.00
Preps For Soil Samples			
EPH-Ultrasonic Extraction	SW3550B		\$0.00
Methanol Extraction for Volatiles	SW5035		\$0.00
		Schedule Price/Sample:	\$195.00
		Number of Samples:	17
		Schedule Total:	\$3315.00

Schedule: EPH Soil w/o PAH Matrix: Soil

Comments:

Analyses	Method	Reporting Limit	Analyte Price
Extractable Petroleum Hydro	carbons		
Hydrocarbons, Aliphatic Extractal Petroleum	ole		\$75.00
C19 to C36 Aliphatics	MA-EPH	10 mg/kg-dry	**

C9 to C18 Aliphatics MA-EPH	10 mg/kg-dry	**
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** Included in Hydrocarbons, Aliphatic Extractable Petroleum Price

Hydrocarbons, Aromatic Extractal	ple		\$75.00
Petroleum			
C11 to C22 Aromatics	MA-EPH	10 mg/kg-dry	**
Total Extractable Hydrocarbons	MA-EPH	10 mg/kg-dry	**
** Included in Hydrocerbons Are	matic Extractable Detroloum Price		

^{**} Included in Hydrocarbons, Aromatic Extractable Petroleum Price

Preps For EPH Soil W/o	PAH		
EPH-Fractionation	MA-EPH		\$0.00
		Schedule Price/Sample:	\$150.00
		Number of Samples:	10
		Schedule Total:	\$1500.00

Schedule: Aqueous Samples Matrix: Aqueous

Comments:

Analyses	Method	Reporting Limit	Analyte Price
Inorganics			
Anions by Ion Chromatography			\$10.00
Sulfate	E300.0	1 mg/L	**
** Included in Anions by Ion Chror	matography Price		
Nutrients			
Nitrogen, Nitrate	E353.2	0.01 mg/L	\$0.00
Nitrogen, Nitrate + Nitrite	E353.2	0.01 mg/L	\$25.00
Nitrogen, Nitrite	E353.2	0.01 mg/L	\$25.00
Metals, Dissolved			
Metals by ICP/ICPMS, Dissolved			\$20.00
Iron, Ferrous	E200.7_8	0.03 mg/L	**
Manganese	E200.7_8	0.001 mg/L	**
** Included in Metals by ICP/ICPM	S, Dissolved Price		
Petroleum Hydrocarbons-Volat	tile		
Volatile Petroleum Hydrocarbons	MA-VPH	0.5 - 20 ug/L	\$120.00
Extractable Petroleum Hydroca	arbons-Screen Analysis		
Hydrocarbons, Extractable Petroleu Screen	ım SW8015M	300 ug/L	\$75.00
Organic Characteristics			
Methane	SW8015M	0.001 mg/L	\$50.00

Preps For Aqueous Samples

EPH-Sep Funnel Extraction SW3510C \$0.00

Schedule Price/Sample: \$325.00

Number of Samples: 12

Matrix: Aqueous

Schedule Total: \$3900.00

Schedule: EPH Water w/o PAH

Comments:

Analyses	Method	Reporting Limit	Analyte Price
Extractable Petroleum Hydroca	rbons		
Hydrocarbons, Aliphatic Extractable Petroleum			\$75.00
C19 to C36 Aliphatics	MA-EPH	300 ug/L	**
C9 to C18 Aliphatics	MA-EPH	300 ug/L	**
** Included in Hydrocarbons, Alipha	itic Extractable Petroleum Price		
Hydrocarbons, Aromatic Extractable			\$75.00
Petroleum	5511	202 #	**
C11 to C22 Aromatics	MA-EPH	300 ug/L	**
Total Extractable Hydrocarbons	MA-EPH	300 ug/L	**
** Included in Hydrocarbons, Aroma	atic Extractable Petroleum Price		
Preps For EPH Water w/o PAH			
EPH Fractionation	MA-EPH		\$0.00
		Schedule Price/Sample:	\$150.00
		Number of Samples:	12
		Schedule Total:	\$1800.00

Schedule Name	Price / Sample	Number of Samples	Schedule Total
Soil Samples	\$195.00	17	\$3315.00
EPH Soil w/o PAH	\$150.00	10	\$1500.00
Aqueous Samples	\$325.00	12	\$3900.00
EPH Water w/o PAH	\$150.00	12	\$1800.00
	Q	uote Sub Total:	\$10515.00
		Discount:	15.00%
		Misc Charges:	\$0.00
		Quote Total:	\$8937.75





P.O. Box 30622 2910 Hannon Road, Suite #6 Billings, MT 59107

Phone: 406-896-1164 or 800-359-1502

Fax: 406-896-1462

Proposal

TO: Tetra Tech, Inc. ATTN: Nick Sovner

303 Irene Street Helena, MT 59601

Ph: 406-443-5210

Description:

3-30ft wells with 15ft of .010 screen and flush mount covers. 3 -30ft borings in the

road.

DATE: 1/8/2016

PROJECT: Bob's Chevron

Harlowton, MT

TERMS: Net 30 days

	UNITS	UNIT	AMOUNT
	EST.	PRICE	EST.
*******	*****	******	*****
Mob/ Demob, Per Mile	250	\$3.25	\$812.50
Support Truck, Per Day	3	\$100.00	\$300.00
Perdiem, Per Crew Day	3	\$46.00	\$138.00
Lodging, Per Night, Estimated	2	\$200.00	\$400.00
Auger Drilling, Per Ft	180	\$18.50	\$3,330.00
Well Installation, Per Ft	90	\$23.50	\$2,115.00
Flush Mount Vaults with Concrete, Each	3	\$90.00	\$270.00
Asphalt Patch, Per Bag	2	\$17.00	\$34.00
Standby, Per Hr	0	\$150.00	\$0.00
•			******

ESTIMATED TOTAL: \$7,399.50

Notes:

- 1) This bid does not include traffic control for road work.
- 2) Client is responsible to clear location of utilities.
- 3) Client is responsible for disposal of drill cuttings.
- 4) Client will be invoiced only the amounts used.
- 5) We assume that site is accessible by truck mount drill rig.

Proposal By:

Paul Bray



P.O. Box 3810 ~ Butte, MT 59702

Office: (406) 494~3310 Fax: (406) 494~3301

Email: info@okeefedrilling.com

Client:Tetra TechDate:08-Jan-16Attention:Nick SovnerPhone:406.443.5210

Project: Harlowton, MT Fax:

Bob's Chevron

PROJECT SPECIFICATIONS:				
Type of Rig:	Mobile B-61 Auger	Number of Borings:	3	
Location:	Harlowton, MT	Expected Footage:	30	
Formation:	Sands Gravels	Number of Wells:	3	
Sampling:	<u>Yes</u>	Expected Footage:	30	
Decontamination:	<u>Yes</u>	Screen Length:	10	
Other Details:	Flushmounts	Completion PVC Size:	2	

Soil Boring/Monitoring Well Installation

Unit Cost Worksheet

	Task		Unit		Number of		Total Cost
			Cost		Units		
Mobilizatio	n/Demobilization						
	Drill Rig	\$	2.00	Miles	380	\$	760.00
	Support Vehicle/Daily Travel	\$	1.50	Miles	380	\$	570.00
Per Diem	Crew Members						
rei Dieili	Crew Members			Per Person			
	Motel	2 \$	80.00	Per Day Per Person	3	\$	480.00
	Food	2 \$	23.00	Per Day	4	\$	184.00
Soil Boring	g Installation						
8.75	Drilling 0-50 ft range	\$	24.00	Per Foot	180	\$	4,320.00
Monitor We	ell Installation -						
2"	Drilling 0-50 ft range	\$	32.00	Per Foot	90	\$	2,880.00
Drilling Standby & Safety Meeting							
	Prior Approval Needed	\$	105.00	Per Hour		\$	-
Other:							
	Removal of cuttings	\$	170.00	Per Hour	1	\$	170.00
	Well Development	\$	275.00	Per Well		\$	-
		To	otal Proje	ct Expense	s	\$	9,364.00

^{***}Client is responsible for any line locates. Locate number can then me given to O'Keefe Drilling who then will request a ticket default.

^{****}This bid is subject to change as warranted when the addition of prior unexpressed need for additional certifications, medical monitoring, sampling, containerization or other unforseen change in the scope of work.

Sovner, Nicholas

To: Hansen

Subject: RE: Drill Bid - Bob's Chevron, Harlowton

From: Hansen [mailto:hansenps@nemont.net]
Sent: Monday, January 11, 2016 3:43 PM

To: Sovner, Nicholas < Nicholas. Sovner@tetratech.com>

Subject: RE: Drill Bid - Bob's Chevron, Harlowton

Nick:

Thanks for the opportunity to bid. We submit a "NO Bid" for Harlowton Bob's Chevron. If you get projects closer to Glasgow, send bid specs.

Thanks, Steve Hansen

From: Sovner, Nicholas [mailto:Nicholas.Sovner@tetratech.com]

Sent: Wednesday, January 06, 2016 10:16 AM

To: Hansen

Subject: Drill Bid - Bob's Chevron, Harlowton

Hello Steve,

If interested in a drilling project in Harlowton please submit a bid for the following work by Thursday, 1/14/16:

- 6 hollow-stem auger borings to a depth of 30 feet;
- 3 of the borings to be converted to groundwater monitoring wells;
- Assume environmental sampling and decon procedures between locations;
- Wells constructed of 2" Schedule 40 PVC with .010 slotted screens;
- Flush mount covers on all three;
- Cuttings can be disposed of on-site;
- Work is petroleum fund eligible so assume state mob and per diem rates;
- Work will occur post-excavation of a former UST basin probably in early spring.

On a side note, sorry I did not get back to you sooner about the Big Sandy job. We just recently got authorization and Hansen was not selected.

Thank you,

Nick

Nicholas Sovner | Environmental Scientist | Project Manager Main: 406.443.5210 | Direct: 406.447.1450 | Cell: 406.202.0466 Fax: 406.449.3729 | nicholas.sovner@tetratech.com

Tetra Tech | Complex World, CLEAR SOLUTIONS™ 303 Irene Street | Helena, MT 59601 | www.tetratech.com

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(406) 256-0199 (406) 256-8081 Fax

AN EQUAL OPPORTUNITY EMPLOYER

QUOTATION

Tetra Tech

Attn: Nick Sovner

Re: Second St NW/Hwy 12, Harlowton MT

Date: January 14, 2016

Contact: Cris Kitchin 671-6681

<u>Item N</u>	lo. Description	Unit	Quantity	Unit Price	Total Price
1 2	Traffic Control (Note 1) Flagger (Note 2)	Daily Hr/Ea	1 TBD	1725.00 48.00	\$ TBD TBD
				TOTAL	\$ TBD

This quote is valid for 10 days from above date.

Note 1: Price includes supply, installation and tear-down of traffic control devices on Second St NW/Hwy 12 near the intersection of Central Ave N, Harlowton, MT. Daily rate applies to all days that require traffic control personnel on the job. The daily rate will need to be calculated by the prime contractor to determine how many days of traffic control will be needed to complete the work. Daily rate will apply if traffic control is dispatched to project and then shut down due to weather.

Daily rate excludes light plants, night-time flagging, flagging, pilot car, pilot car driver, safety fence, temporary traffic control signals, flashing flagmen, message boards, striping or stripe removal & positive separation barriers on quote items.

NOV 15 – APRIL 15 On-site Traffic Control will not be provided when ambient or wind chill temperatures are below zero and wind speeds exceed 45 MPH and roads conditions are snow packed, ice, blowing drifting snow or fog.

Note 2: Prime Contractor will need to calculate how many flagging hours are needed to complete the project. Flagging will be charged at the above hourly rate per flagger per hour. A minimum of 6 hours is charged per request for a flagger and at least 48 hours advance notice is required.

PO Box 31793 Billings, Montana 59107



(406) 256-0199 (406) 256-8081 Fax

AN EQUAL OPPORTUNITY EMPLOYER

Re: Second St NW/Hwy 12, Harlowton, MT

MWHC will install signs & devices per approved traffic control plan. The price includes submittal of a traffic control plan to authorized governing agent.

MWHC will not indemnify prime contractor/subcontractor if devices are moved by anyone other than MWHC employees.

Excluding chip seal operation, Sundays and holidays are to be paid at 1.5 times the bid price.

MHWC will not waive immunity granted under the Workers Comp Laws. Indemnification of Concurrent Negligence is valid only to the extent of the negligence on MWHC.

No changes to this quote are allowed without prior approval from MHWC.

Price does not include any notifications of public, private or emergency services. Excludes Railroad Protective Insurance and Railroad flagging.

Payments are to be paid per Montana Law: 28-2-2103 MCA (Montana Code Annotated). No retainage is to be withheld. Quote includes Gross Receipts Tax and Bonding only. Quote does not include OCP Insurance, Builders Risk Insurance and Pollution Insurance.

A signed copy of this quote by an authorized representative must be signed and returned to MWHC prior to any work performed for this project.

Date:	
Signature:	
Print Name:	
Title:	
Company:	
Address:	
City, State, Zip Code:	
Phone:	

Sovner, Nicholas

From: Jake Ziska <jziska@wwcengineering.com>
Sent: Wednesday, January 06, 2016 11:52 AM

To: Sovner, Nicholas

Subject: RE: Bob's Chevron, Harlowton - Survey Bid

Hi Nick,

I estimate we could survey the 3 wells in Harlowtown for \$1500. Just let me know when you're ready to go and I will get you on the schedule.

Thanks,

Jake



Jake Ziska, P.L.S., CFedS, E.I. | Land Surveyor / Civil Engineer

1275 Maple Street, Suite F | Helena, MT 59601 Tel 406-443-3962 | Fax 406-449-0056 www.WWCengineering.com

From: Sovner, Nicholas [mailto:Nicholas.Sovner@tetratech.com]

Sent: Wednesday, January 06, 2016 8:19 AM

To: Jake Ziska

Subject: Bob's Chevron, Harlowton - Survey Bid

Hey Jake,

Happy New Year. I'm looking for another survey bid for a site in Harlowton. Were in stalling 3 wells this spring across the street from the electric train in the middle of town.

Also, we got DEQ approval for the additional work in Hilger, just waiting for funding at this point. Wells are going in next week in Big Sandy if you want to add that to your schedule.

Thanks,

Nick

Nicholas Sovner | Environmental Scientist | Project Manager Main: 406.443.5210 | Direct: 406.447.1450 | Cell: 406.202.0466 Fax: 406.449.3729 | nicholas.sovner@tetratech.com

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